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# PATENT COOPERATION TREA

PCT 10/531783

2003 -06- 0 2

U-A PD

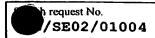
## INTERNATIONAL-TYPE SEARCH REPORT

(PCT Article 15.5)

National application No. 0203226-6	Country or Office o	f filing	Applicant's or agent's file reference PU0284-SE
Filing date (day month year)		(Earliest) Priority	Date (day month year)
31 October 2002			
Applicant			
AMERSHAM BIOSCIENCES AB			
		· · · · · ·	
Date of request for international-type s	earch	International-type	e search request No.
31 October 2002		SE 02/01004	
This international-type search report to the applicant.  This international-type search report  It is also accompanied by a	consists of a total ofcopy of each prior art	5 sheets.	
1. Certain claims were found u	nsearchable (See Box 1	).	
2. Unity of invention is lacking	(See Box II).		
3. The international application international-type search wa	n contains disclosure of s carried out on the ba	f a nucleotide and/oasis of the sequence	or amino acid sequence listing and the listing
Gi	ed with the internation	al application.	
fu	rnished by the applicat	nt separately from	the international application,
	but not accor	mpanied by a stater beyond the disclos	ment to the effect that it did not include ure in the international application as filed.
tra	anscribed by this Auth	ority.	•

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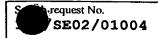
## INTERNATIONAL-TYPE SEARCH REPORT



Box 1	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This inter	national-type search report has not been established in respect of certain claims for the following reasons:
1.	Claims No.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims No.: 1-19 (partially) because they relate to parts of the national application that do not comply with the prescribed requirements to such an extent that no meaningful international-type search can be carried out, specifically:  see next sheet
Dan II	
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
inis inte	mational Searching Authority found multiple inventions in this application, as follows:
· 📙	As all required additional search fees were timely paid by the applicant, this international-type search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international-type search report covers only those claims for which fees were paid, specifically claims No.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international-type search report is restricted to the invention first mentioned in the claims, it is covered by claims No.:
Remark	on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

Form PCT/ISA/201 (continuation of first sheet) (July 1992)

#### INTERNATIONAL-TYPE SEARCH REPORT



Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

#### Continuation of:

Claims 1-6 relate to a compound containing a binding pocket. The compound is not considered to be sufficiently defined. It is even uncertain whether the binding pocket is sufficiently defined by the structure coordinates in order to be reproducibly generated.

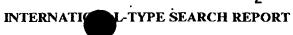
Present claims 1-8 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible.

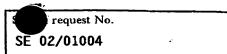
Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts related to a compound consisting of the IgG kappa constant region (either the light chain alone or in combination with the heavy chain).

Claims 9-19 relate to methods and uses of the compound or binding pocket. Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT is not considered to be sufficient. Since no ligands identified by the methods have been named it is not considered that the description is sufficiently clear and complete for the invention to be carried out by a person skilled in the art.

Form PCT/ISA/201 (Supplemental Box) (July1992)

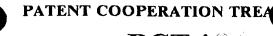
A. CLASS	IFICATION OF SUBJECT MATTER					
IPC7: C	07K 16/18, G06T 17/00, G01N 33/563 International Patent Classification (IPC) or to both nat	3 ional classification and IPC				
B. FIELDS	S SEARCHED					
Minimum do	cumentation searched (classification system followed by	classification symbols)	·			
	07K, G06T, G01N					
	on searched other than minimum documentation to the	extent that such documents are included it	n the fields searched			
	I,NO classes as above that base consulted during the international search (name	of data hase and where practicable count	ı terms used)			
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FPO-TNT	ERNAL, WPI, PAJ					
	MENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where app	ropriate, of the relevant passages	Relevant to claim No.			
Х	The Journal of Biological Chemis		1-8,20-22			
	No. 21, 24 May 1996, Susan C "Structural Studies of Human	Autoantibodies",				
	page 12191 - page 12198, abs	tract				
Y			9-19			
Υ .	Pathology Inaternational, Vol. 5 2001, Yoshinobu Hoshii et al	: "Useful polyclonal	9-19			
	antibodies against synthetic to immunoglobulin light chai					
	immunohistochemical detectio					
	light chain amyloidosis", pa					
	<del>"</del>					
X Furth	er documents are listed in the continuation of Box	C. See patent family anne.	х.			
"A" docume	categories of cited documents: ent defining the general state of the art which is not considered	"T" later document published after the int date and not in conflict with the appli the principle or theory underlying the	ication but cited to understand			
"E" erlier de	to be of particular relevance  "X"  document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive.					
cited to special	cited to establish the publication date of another citation or other special reason (as specified)  step when the document is taken alone document is taken alone when the document of particular relevance: the claimed invention cannot					
means "P" docume						
the priority date claimed "&" document member of the same patent family						
Date of the search	e actual completion of the international-type	Date of mailing of the international- 2003 -05- 2 {	•			
21 May	2003	2000 (3-3 / (	U			
Name and	mailing address of the ISA/	Authorized officer				
Swedish Patent Office						
_ `	Box 5055, S-102 42 STOCKHOLM					





Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No	
A	Journal of Immunological Methods, Vol. 71, 1984, Hervé Bazin et al: "Rat Monoclonal Antibodies. II. A Rapid and Efficient Method of Purification from Ascitic Fluid or Serum", page 9 - page 16	9-19	
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Res's 1 & APR 2005



PCT 10/222/83

### INTERNATIONAL-TYPE SEARCH REPORT

(PCT Article 15.5)

National application No. 0203878-4	Country or Office o	f filing	Applicant's or agent's file reference PU02103
Filing date (day/month/year)		(Earliest) Priority	Date (day month year)
20 December 2002			
Applicant			
AMERSHAM BIOSCIENCES AB			
		T	
Date of request for international-type se	arch		search request No.
20 December 2002		SE 02/01245	
This international-type search report he to the applicant.  This international-type search report of the international internati	onsists of a total of _	sheets.	,
Certain claims were found un	searchable (See Box I	).	
2. Unity of invention is lacking (	See Box II).		
3. The international application international-type search was	contains disclosure o carried out on the ba	f a nucleotide and/o asis of the sequence	or amino acid sequence listing and the listing
file	d with the internation	al application.	·
fur	nished by the applica	nt separately from t	he international application,
			nent to the effect that it did not include ure in the international application as filed.
tra	nscribed by this Auth	ority.	

#### A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C07C 275/40, C07D 213/81, A61P 37/00, C07C 317/42, A61K 31/17 // C08B 37/08 According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C07C, C07D, A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

#### SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

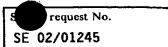
<b>EPODOC</b>	WPT	PA.1	MEDLINE,	FMRASE	CAPILIS
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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0743067 A2 (TORAY INDUSTRIES, INC.), 20 November 1996 (20.11.96), page 2, line 8 - line 52, formula I	1-17
	<del></del>	
х	Journal of Chromatography A, Volume 732, 1996, James F. Lawrence et al, "Use of immunoaffinity chromatography as a simplified cleanup technique for the liquid chromatographic determination of phenylurea herbicides in plant material", pages 277-281, figure 1	15-17
	<del></del>	
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*	Special categories of cited documents:	"T"	later document published after the international filing date or priority
"A"	document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the application but cited to understand the principle or theory underlying the invention
*E*	erlier document but published on or after the international filing date	"X"	
"L"			considered novel or cannot be considered to involve an inventive step when the document is taken alone
			document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
•			document member of the same patent family
	of the actual completion of the international-type	Date	of mailing of the international-type search report
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Nan	ne and mailing address of the ISA/	Autho	orized officer
Swe	edish Patent Office		
Box	5055, S-102 42 STOCKHOLM	FERI	NANDO FARIETA/BS
Face	simile No. +46 8 666 02 86	Telepi	hone No. + 46 8 782 25 00

	JSL 02/01243	
C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
х	J. Microcolumn Separations, Volume 12, No. 5, 2000, Eric Schoenzetter et al, "Rapid Sample Handling in Microcolumn-Liquid Chromatography Using Selective On-line Immunoaffinity Extraction", pages 316-322, figure 1	15-17
Y	WO 02076930 A2 (TELIK, INC.), 3 October 2002	1-14
	(03.10.02), claims 1-22 	
Y	WO 02083628 A1 (BOEHRINGER INGELHEIM PHARMACEUTICALS, INC.), 24 October 2002 (24.10.02), claims 32-36, compound I	1-14
	<b></b>	
A	Journal of Immunological Methods, Volume 196, 1996, G.A. Bonwick et al, "Production of murine monoclonal antibodies against sulcofuron and flucofuron by in vitro immunisation", pages 163-173, figure 1,5	1-14
A	J. Agric. Food Chem., Volume 42, 1994, Peter Schneider et al, "A Highly Sensitive and Rapid ELISA for the Arylurea Herbicides Diuron, Monuron, and Linuron", pages 413-422, figure 1	15-17
A	Ananlytica Chimica Acta, Volume 399, 1999, Petra M. Krämer et al, "Flow injection immunoaffinity analysis (FIIAA)- A screening technology for atrazine and diuron in water samples", pages 89-97, Diuron	15-16
A	WO 9727752 A1 (MERCK & CO., INC.), 7 August 1997 (07.08.97), claims 1-23	1-14
		·
	SA/201 (continuation of second sheet) (March 1993)	<u> </u>





		SE 02/01245	
C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.
A	US 4977247 A (FAHNESTOCK ET AL), 11 December (11.12.90), claims 1-16	1990	15-17
A	EP 0327365 A2 (HYBRITECH CORPORATED), 9 August 1989 (09.08.89), compound I, II		15-17
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	SA/201 (continuation of second sheet) (March 1993)		

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request No. 29/06/03 SE 02/01245

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				US	5928633 A	27/07/99
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	2			EP	0363436 A	18/04/90
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				DK	47389 A	04/08/89
				ES	2058492 T	01/11/94
				JP	2001434 A	05/01/90